

Attachment IV-2

Stabilization Reagent List (Typical)

Commonly Used Stabilization Reagents

Pozzolan Materials

Cement
Cement Kiln Dust
Flyash (Class F & C)
Lime
Lime Kiln Dust
Sodium Silicate
Zeolites (Aluminum Silicates)
Metabond
Enviroblend
Envirobond

Oxidizers/Reducers

Aluminum Hydroxi Chloride
Ammonium Phosphate
Ammonium Sulfate
Calcium Hypochlorite
Copper Sulfate
Ferrous Ammonium Sulfate
Ferrous Nitrate
FeSO₄ (Ferrous Sulfate)
Green Phosphate
Hydrogen Peroxide
Nonoxinol-9
Potassium Permanganate
Potassium Phosphate (Monobasic)
Sodium Hydrosulfite
Sodium Hypochlorite
Sodium Metabisulfite
Sodium Percarbonate
Sodium Poly Phosphate
Thio-red

pH Adjustment

Ammonium Hydroxide
Calcium Sulfate (Anhydrous)
Sodium Hydroxide
Sulfuric Acid

Precipitation/Flocculants

Ammonium Sulfate
Anionic-Cationic Flocculants
Calcium Chloride
Calcium Sulfate
Cellulose Xanthate
Colloidal Silicon Dioxide
Ferric Oxide
Ferrous Oxide
Ferrous Sulfate Heptahydrate
Sodium Aluminate
Sodium Carbonate
Starch Xanthate
Calcium Polysulfide
Sodium Dimethyldithiocarbamate

Absorbents/Binding Agents

Carbon
Chembond (Modified Clay)
Liqui-Set (Modified Clay)
Liquibond (Modified Clay)

Wetting Agents/Dispersants/Chelating Agents/Solvents (to enhance mixing and reactions)

Methanol
Water

Other

Aluminum Chips
Brass Chips
Sand
Iron Chips
Salt Water
Sulfur

Stabilization Reagents
Special Additions/Other Usages

Citric Acid	CAS 77-92-9
For: Chelating Agent	
Ferric Chloride CAS 7705-08-0	
For: Reducing Agent	
Sodium Meta Silicate	CAS 6834-92-0
For: Volume reduction and metal fixation	
Aluminum Oxide	CAS 1344-28-1
For: Cement strengthening and metal fixation	
Cupric Nitrate	CAS 3251-23-8
For: Oxidizer Catalyst	
Copper Bromide	CAS 7789-45-9
For: Oxidizer Catalyst	
Copper Sulfate	CAS 7758-98-7
For: Oxidizer Catalyst	
Sodium Peroxide	CAS 1313-60-6
For: Oxidizer	
Calcium Peroxide	CAS 1305-79-9
For: Oxidizer	
Sodium Persulfate	CAS 7775-27-1
For: Oxidizer	
Various Surfactant Mixture/Blends	NO CAS AVAILABLE:
For: Emulsification/Polarity Adjustment	Manufacture Proprietary
Methanol	CAS 67-56-1
For: Polarity adjustment	
Isopropyl Alcohol	CAS 67-63-0
For: Polarity adjustment	